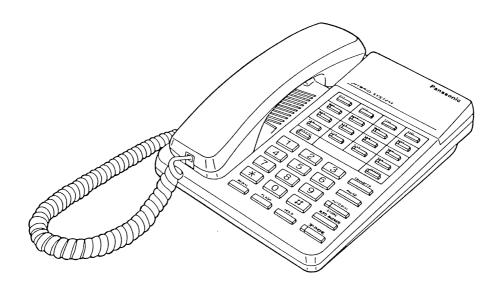
ORDER NO. KM49105625C3

Service Manual

and Technical Guide

PROPRIÉTARY TELEPHONE FOR ELECTRONIC MODULAR SWITCHNG SYSTEM

KX-T7020



SPECIFICATIONS/TEXHUYECKUE XAPAKTEPUCTUKU

ІС DATA/ИНФОРМАЦИЯ О МИКРОСХЕМАХ

TROUBLESHOOTING GUIDE/HEИСПРАВНОСТИ И МЕТОДЫ ИХ УСТРАНЕНИЯ

ADJUSTMENTS/PEГУЛИРОВКИ

BLOCK DIAGRAM/БЛОК-СХЕМА

SCHEMATIC DIAGRAM/ПРИНЦИПИАЛЬНАЯ СХЕМА

EXTENSION CORD CONNECTING METHOD/ПОДКЛЮЧЕНИЕ СЕРВИСНОГО КАБЕЛЯ

ACCESSORIES AND PACKING MATERIALS/ПРИНАДЛЕЖНОСТИ И УПАКОВОЧНЫЕ МАТЕРИАЛЫ

CABINET AND ELECTRICAL PARTS LOCATION/РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ

ЧАСТЕИ

HANDSET PARTS LOCATION/РАСПОЛОЖЕНИЕ ЧАСТЕЙ ТРУБКИ REPLACEMENT PARTS LIST/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

■ SPECIFICATIONS

Station Loop Limit: Cabling Method: Jacks: 40 ohms 2 pair wire

EMSS, Handset 172 (W)×90 (H)×240 (D) mm with handset (6²⁵/22″×3¹⁷/32″×9⁷/16″) 850 g (1 lb 14 oz) Dimensions:

Weight:

Design and specifications are subject to change without notice.

IC DATA

I C 7 1 011 2 012 3 013 4 014 5 015 010 📢 09 08 07 06 05 04 03 02 66 01 65 00 64 GND 0SC2 62 0SC1 51 TEST 60 RESET (9 R93 🔞 R92 47 R91 46 R90 45 R83 44 RB2 (3) RB1 (2 R80 (1) R73 👰 R72 (9) R70 97 R43 (5) 50/R42 (5) SI /R41 (4) 5CK/R40 (3)

IC7 PQVI4046SA92
Program ROM: 4K Byte (4 bit)
Internal RAM: 1K bit

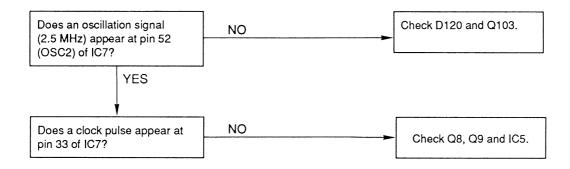
Clock Frequency: 2.5 MHz Power Supply Voltage: 2.7–6 V

Pin No.	Mark	Function	High	Low
1	D11	LED Control Output	ON	OFF
2	D12	LED Control Output	ON	OFF
3	D13	LED Control Output	ON	OFF
4	D14	LED Control Output	ON	OFF
5	D15	LED Control Output	ON	OFF
6	R00	LED Control Output	ON	OFF
7	R01	LED Control Output	ON	OFF
8	R02	LED Control Output	ON	OFF
9	R03	LED Control Output	ON	OFF
10	R10	Tone Control Output	ON	OFF
11	R11	Tone Control Output	ON	OFF
12	R12	Tone Control Output	ON	OFF
13	R13	Tone Control Output	ON	OFF
14	R20	Speaker Mute	ON	OFF
15	R21	MIC Mute	ON	OFF
16	R22	Handset /SP-Phone Power Control	ON	OFF
17	R23	Not Used		
18	RA0	Key Input	Disable	Enable
19	RA1	Ground		
20	R30	Not Used		
21	R31	Not Used		
22	R32/ INT0	Interrupt Input	Standby	Active
23	R33/ INT1	Interrupt Input	Standby	Active

Pin No.	Mark	Function	High	Low
24	R50	Key Scan Output	Normal	Active
25	R51	Key Scan Output	Normal	Active
26	R52	Key Scan Output	Normal	Active
27	R53	Key Scan Output	Normal	Active
28	R60	DTMF Control	Normal	Active
29	R61	DTMF Control	Normal	Active
30	R62	DTMF Control	Normal	Active
31	R63	Not Used		
32	Vcc	(+) Power Source Terminal		
33	SCK/R40	Interrupt Output	Disable	Enable
34	SI/R41	Key Input	Disable	Enable
35	S0/R42	Key Input	Disable	Enable
36	R43	Key Input	Disable	Enable
37	R70	DTMF Control	Normal	Active
38	R71	DTMF Control	Normal	Active
39	R72	DTMF Control	Normal	Active
40	R73	DTMF Control	Normal	Active
41	R80	Not Used		
42	R81	SP-Phone Chip Select Control Output	OFF	ON
43	R82	Not Used		
44	R83	SP-Phone MIC Mute Control Output	ON	OFF
45	R90	Key Input	Disable	Enable
46	R91	Key Input	Disable	Enable
47	R92	Power Fail Detect Input	Power Down	Normal
48	R93	Hook Data Input	Off-Hook	On-Hook
49	RESET	System Reset Input		
50	TEST			
51	OSC1	System Clock		
52	OSC2	System Clock		
53	GND	Ground		
54	D0	Not Used		
55	D1	Key Input	Disable	Enable
56	D2	LED Reset Signal Output	Active	Normal
57	D3	Data Input Control	Normal	Active
58	D4	Data Input	Disable	Enable
59	D5	Data Output	Active	Normal
60	D6	Automatic Redial Signal Input	Disable	Enable
61	D7	SP-Phone Path Control	ON	OFF
62	D8	OHCA Path Control	ON	OFF
63	D9	LED Control Output	ON	OFF
64	D10	LED Control Output	ON	OFF

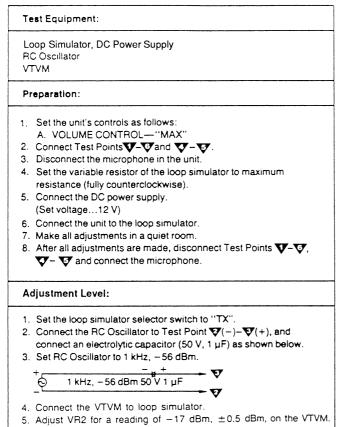
TROUBLE SHOOTING GUIDE

1) NO OPERATION

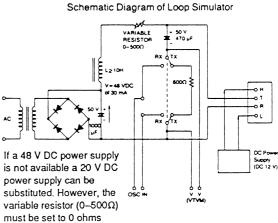


ADJUSTMENTS

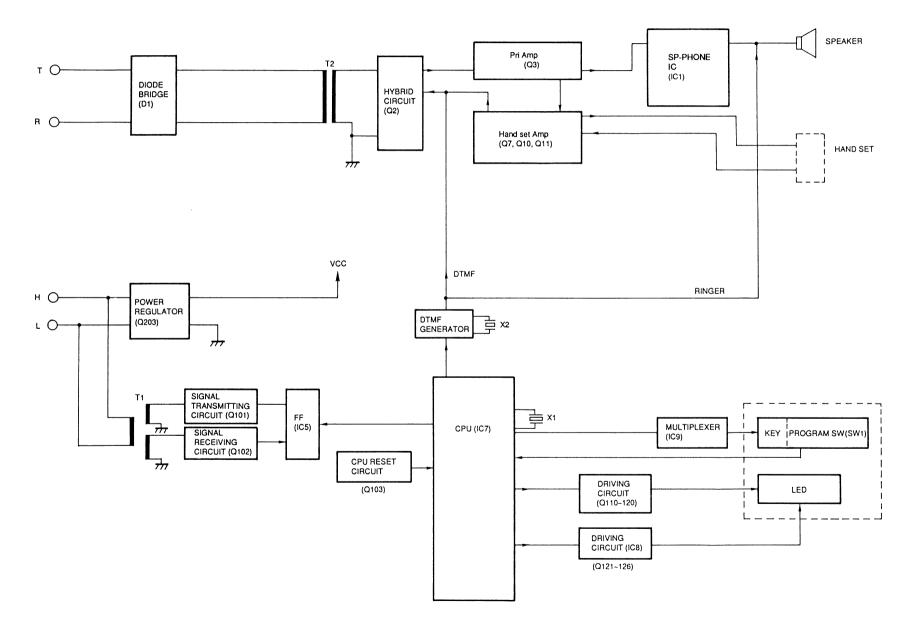
•Perform the following adjustment after replacing. IC1.



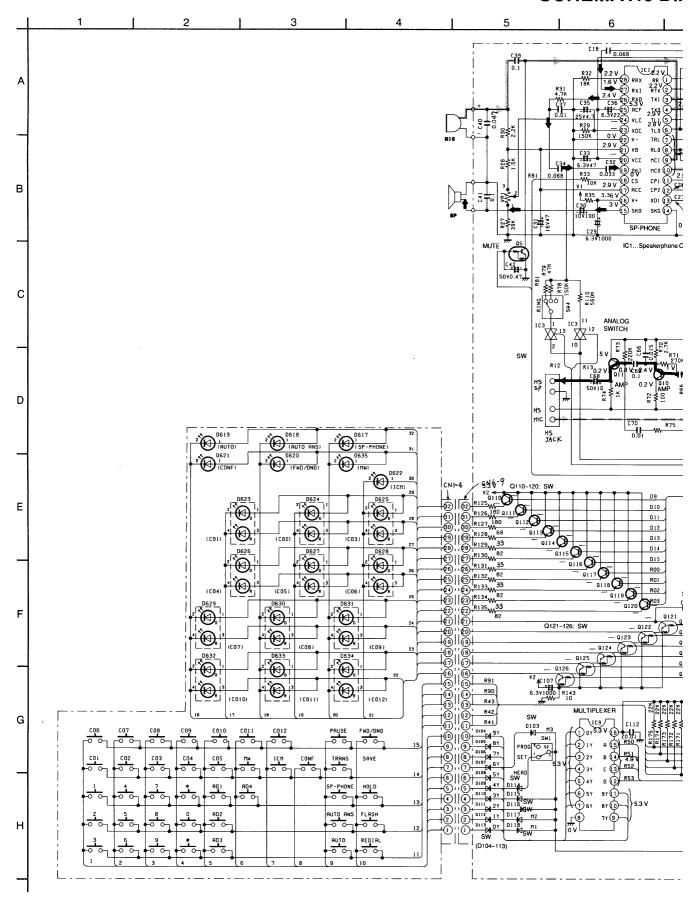
Please refer to Printed Circuit Board which is located test points (▼).



BLOCK DIAGRAM

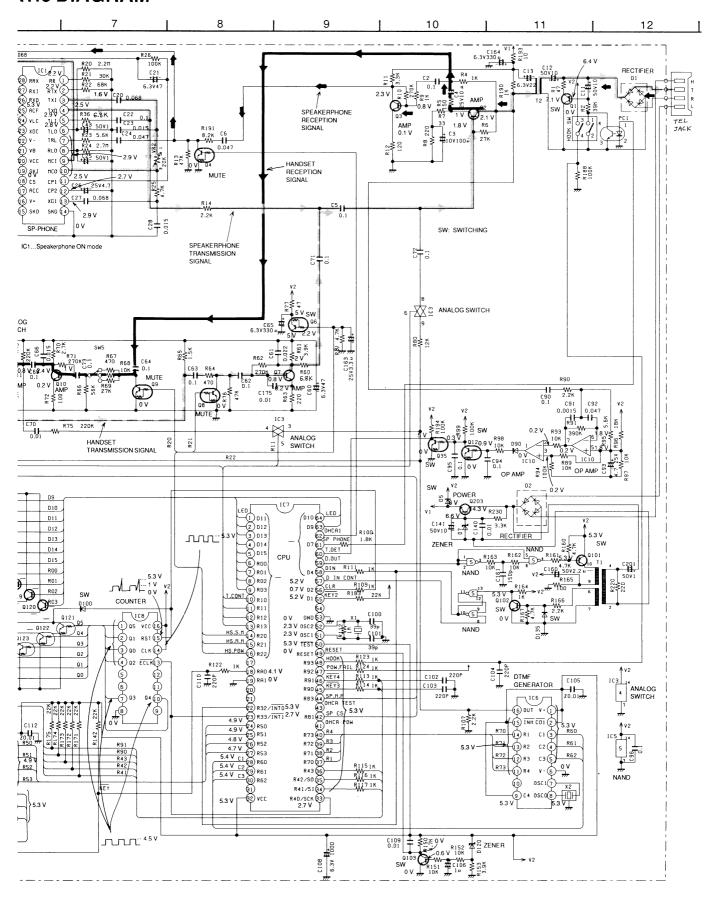


SCHEMATIC DIA





ATIC DIAGRAM





EXTENSION CORD CONNECTING METHOD

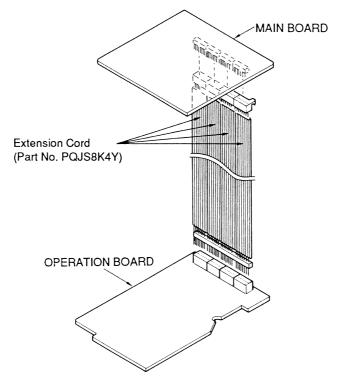
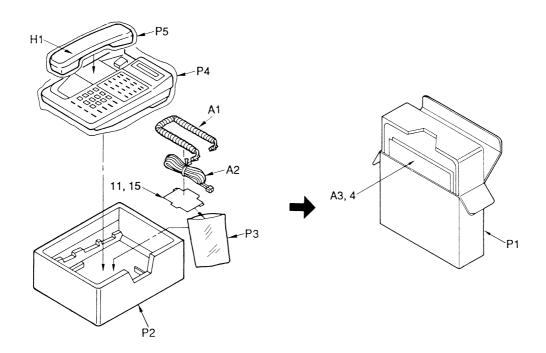
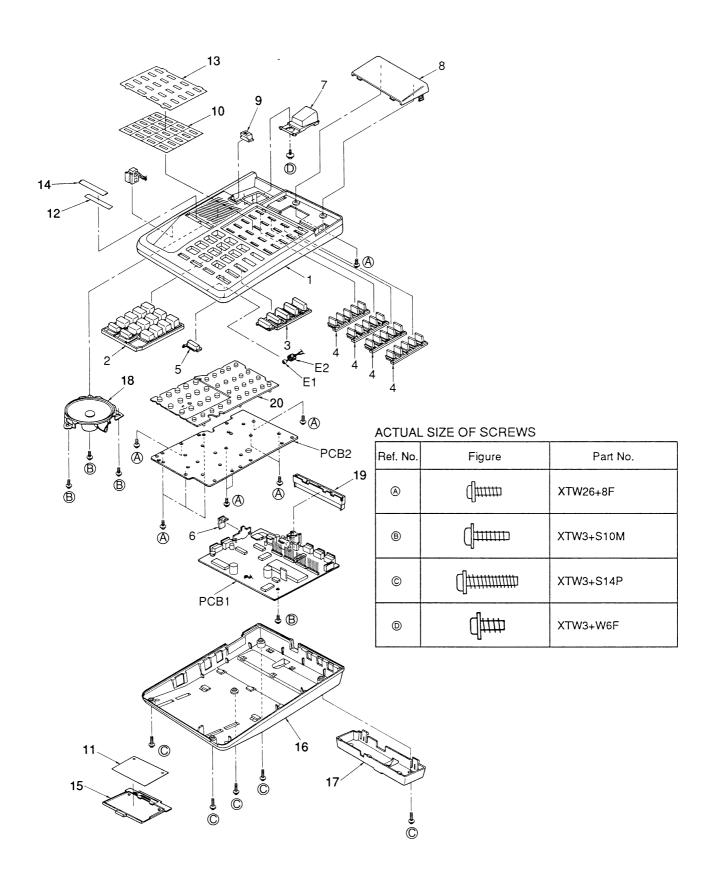


Fig. 11

ACCESSORIES AND PACKING MATERIALS



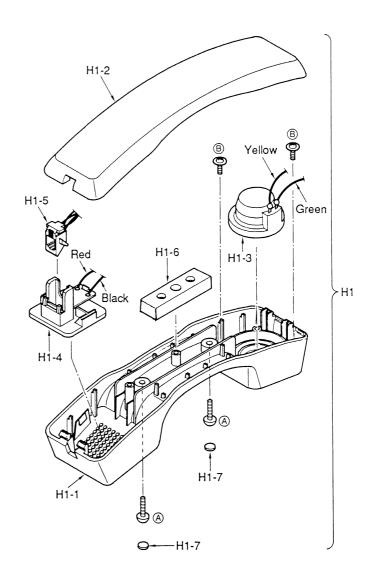
CABINET AND ELECTRICAL PARTS LOCATION



HANDSET PARTS LOCATION

ACTUAL SIZE OF SCREWS

Ref. No.	Figure	Part No.
A	()zzzzz	XTN3+10G
₿	(\times	XTW3+W8P



	REPLAC	EMENT P	ARTS		(X-T7020		
Notes:							
1. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set. 3. The S mark indicates service standard parts and may differ from production parts. 4. RESISTORS & CAPACITORS Unless otherwise specified. All resistors are in ohms(Ω) k=1000Ω,M=1000kΩ							
*Type &Wattag	e in MICRO FAR e of Resistor	ADS(µF)	Ρ=μμΕ				
Туре							
ERC:Solid	ERX:Metal F		Q4R:C				
ERD:Carbon	ERG:Metal C			sible Resistor	1		
PQRD:Carbon	ER0:Metal F	lm E	RF:Cer	ment Resisto	ſ		
Wattage							
10,16:1/8W	14,25:1/4W	12:1/	2W	1:1W	2:2W 3:3W		
*Type & Voltage	of Capacitor						
Type							
ECFD:Semi-Co	nductor			BT,PQCBC:			
ECQS:Styrol				QG : Polyste	r		
PQCUV:Chip		ECEA,EC		•			
ECQMS:Mica		ECQP : P	olyprop	lylene			
Voltage							
ECQ Type	ECQG	ECSZ Ty	ре	C	Others		
	ECQV Type						
1H: 50V	05: 50V	0F:3.15V	1	:6.3V	1V :35V		
2A:100V	1:100 V	1A:10V	1	:10V	50,1H:50V		
2E:250V	2:200V	1V:35V		:16V	1J :63V		
2H:500V		0J:6.3V	1E,	25:25V	2A :100V		
l							

Ref. No.	Part No.	Part Name & Description	Pcs
	CABI	NET AND ELECTRICAL PARTS	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	PQKM208X8 PQBCX198Z PQBCX199Z PQBCX200Z PQBC282Z PQBD166Y PQBE37Z PQGG90Y POKE82Z PQHP5106Z PQHP5107Z PQHP532X PQHR537OZ PQHR56Z PQHR565Z PQYFT7020X8 PQYLT7030X8 PQAS65P06V PQHR9597Z PQSE118Z	UPPER CABINET BUTTON, DIAL/REDIAL/FLASH BUTTON, TRANS/PAUSE/AUTO etc. BUTTON, INTERCOM/CONF etc. BUTTON, HOLD KNOB, VOLUME BUTTON, HOOK GRILLE HANGER TEL. NO. CARD (LARGE) MEMORY CARD TEL. NO. CARD (SMALL) TRANSPARENT PLATE [TEL. NO. CARD (LARGE)] TRANSPARENT PLATE [TEL. NO. CARD (SMALL)] COVER, MEMORY CARD LOWER CABINET ASSY STAND ASSY SPEAKER SPACER KEY SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1	HANDSET PARTS	L
H1 H1-1 H1-2 H1-3 H1-4 H1-5 H1-6	PQJX2PYL02Y PQKM211R87 PQKF192Y87 PQAX4P03Z PQWM2PYL02Y PQJ1TB17X PQHM32Y PQHG695W	HANDSET ASSEMBLY LOWER CABINET UPPER CABINET SPEAKER MICROPHONE ASS'Y JACK WEIGHT RUBBER PARTS, CAP	1 1 1 1 1 1 1 1 2

	Ref. No.	Part No.	Part Name & Description	Pcs
		ACCESSORIE	ES AND PACKING MATERIALS	
1	A1	PQJA214X	HANDSET CORD	1
١	A2	PQJA48W	TELEPHONE CORD	1
١	A3	PQQX6462Z PQQX6463Z	INSTRUCTION BOOK INSTRUCTION BOOK	1
١	A4	PQQX6463Z	(REFERENCE MANUAL)	'
١	P1	PQPK1451Z	GIFT BOX	1
١	P2	PQPN1197Z	CUSHION	1
	P3	XZB15X25A01	PROTECTION COVER	1
			(FOR ACCESSORIES)	
	P4	XZB26X40A01	PROTECTION COVER	1
ı	5-	DOD! 1757	(FOR UNIT)	
	P5	PQPH75Z	PROTECTION COVER (FOR HANDSET)	1
			MAIN BOARD PARTS	l
	PCB1	PQWP1T7020X	MAIN BOARD ASS'Y (NLA)	1
			,	
۱۱			(ICs)	
П	IC1	PQVISC77655S	IC	1
H	IC2	Not Used		
H	IC3	PQVITC4066BP	IC S	1
П	IC4	Not Used		
۱	IC5	PQVITC4011BP	IC S	1
۱	IC6	PQVIUM95089	IC	1
۱	IC7	PQVI4046SA92	IC .	1
۱	IC8	PQVITC4017BP	IC S	1 1
۱	IC9	PQVITC7H42P PQVIUPC358C	IC S	1
۱	IC10	FUVIUPW38C	``	'
١				
ı			(TRANSISTORS)	
	Q1	2SA1625	TRANSISTOR(SI) S	1
	Q2,3	2SD1819A	TRANSISTOR(SI) S	2
	Q4,5	PQVTFB1J3P	TRANSISTOR(SI)	2
	Q6	PQVTDTA143XU	TRANSISTOR(SI)	1
	Q7	2SD1819A	TRANSISTOR(SI) S	1
	Q8,9	PQVTBB1J3P	TRANSISTOR(SI)	2
	Q10,11	2SD1819A	TRANSISTOR(SI) S	2
	Q12	PQVTDTC143E	TRANSISTOR(SI)	1
	Q35	UN5213	TRANSISTOR(SI) S	1
1	Q101	2SB1218A	TRANSISTOR(SI) S	1 2
ı	Q102,103	2SD1819A	TRANSISTOR(SI) S TRANSISTOR(SI) S	11
	Q110-120 Q121	2SD1819A PQVTDTC123E	TRANSISTOR(SI) S TRANSISTOR(SI)	1 1
l	Q122-126	PQVTDTC123E	TRANSISTOR(SI)	5
П	Q203	2SD2136	TRANSISTOR(SI)	1
			(DIODES)	
۱	D1.2	PQVDS1YB40F1	DIODE(SI)	2
۱	D3	Not Used		_
	D4 D5	Not Used 1SS131	DIODE(SI)	1
	D6	Not Used		1 1
1	D7	MA4068 1SS131	DIODE(SI) DIODE(SI)	
۱	D90 D100	155131 155131	DIODE(SI)	1
1	D100 D101,102	Not Used	DIODE(OI)	l '
	D101,102	1SS131	DIODE(SI)	16
١	D120	MA4039	DIODE(SI)	1
1	D135	1SS131	DIODE(SI)	1
	I			1
1	1			<u> </u>
				∟ \
	no:	DOVER DOOR	(PHOTO ELECTRIC TRANSDUCE	
	PC1	PQVITLP627	PHOTO COUPLER S] 1
	PC1	PQVITLP627		
	PC1	PQVITLP627	PHOTO COUPLER S	
			PHOTO COUPLER S (SWITCHES)	1
	SW1	PQSS2A27Y	PHOTO COUPLER S	
	SW1 SW2	PQSS2A27Y Not Used	PHOTO COUPLER S (SWITCHES)	1
	SW1	PQSS2A27Y	PHOTO COUPLER S (SWITCHES)	1
	SW1 SW2 SW3	PQSS2A27Y Not Used Not Used	PHOTO COUPLER S (SWITCHES) SWITCH, MEMORY	1

Ref. No.	Part No.	Part Name & Description		Pcs	Ref. No.	Part No.	Part Name & Description (Value)	Pcs
		(TRANSFORMERS)			C94	PQCUV1E104MD	0.1	1
T1	ETE13K24AY	PULSE TRANSFORMER		1	C95	PQCUV1E104MD	0.1	1
T2	PQLT8D2A	COMMUNICATION TRANSFORMER	S	1	C96	PQCUV1E104MD	0.1	1
					C97	Not Used		ı
]	C98	Not Used		ı
		(VARIABLE RESISTORS)			C99	Not Used		
VR1	PQVAL204B24A	VOLUME CONTROL, 20kΩ (B)	S	1 1	C100	PQCUV1H390JC	39P	1
VR2	PQNB3A00B24M	SEMI-FIXED, 20kΩ (B)	S	1 1	C101	PQCUV1H390JC	39P	1
					C102	PQCUV1H221JC	220P	1
					C103	PQCUV1H221JC	220P	1
		(CRYSTAL OSCILLATOR &		1 1	C104	PQCUV1H221JC	220P	1
,	20110110110	CERAMIC FILTER)		1	C105	PQCUV1H103KB	0.01	1
X1	PQVCX2500N9	CRYSTAL OSCILLATOR		1 1	C106	ECEA1HKS010	1	1
X2	PQVBT3.58G6	CERAMIC FILTER		1 1	C107	ECEA0JU102	1000	1
		LOADAGE		1 1	C108	ECEAQJU102	1000	1
	Na A I I a a d	(CAPACITORS)			C109	PQCUV1H103KB	0.01	1 1
C1 C2	Not Used			1 .	C110	POCBC1H221KB	220P	1
	PQCUV1E104MD	0.1	_	!	C111	Not Used	1	1.
C3 C4	ECEA1CK101 ECEA0JKS220	100	S		C112	PQCUV1H103KB	0.01	1
C5		22			10440	DOO! BALLACOAD		1.
	PQCUV1E104MD	0.1		!	C140	PQCUV1H103KB	0.01	1 1
C6 C7	PQCUV1E473MD Not Used	0.047		1 1	C141	ECEA1HKS100	10	1
C8	Not Used	1			0460	ECEAH WCCDO	22	1 .
C8	Not Used Not Used	1			C160	ECEA1HKS2R2	2.2	1
C10	Not Used				C161	PQCUV1H151JC	150P	1
C10	ECEA1HKS100	10		1 1	C162 C163	Not Used ECEA1HKS3R3	3.3 S	1 .
C12	ECEA2CU010	10				I	1	1
C12	ECEAUKS220	22		1 1	C164	ECEAOJU331	330	1
C14	Not Used	22		1	0175	DOCUMAN I A COMP	0.04	1 .
C15	Not Used				C175	PQCUV1H103KB	0.01	1
C16	Not Used			1 1	0001	ECEATING 040	1.	
C17	Not Used			1 1	C201	ECEA1HKS010	1	1
C18	ECUV1H683MD	0.068	s	1 , 1	1		(DECISEO DO)	1
C19	Not Used	0.008	5	1 1	l.,	DO 4 D 4 O Y 14 7 O	(RESISTORS)	
C20	PQCUV1C683MD	0.068		1 . 1	R1	PQ4R10XJ470	47	1
C21	ECEA1CKS470	47	s	!	R2	PQ4R10XJ393	39K	1
C22	PQCUV1E104MD	0.1	3		R3	Not Used		1.
C23	PQCUV1H153KB	0.015			R4 R5	PQ4R10XJ122	1.2K	1 1
C24	PQCUV1E473MD	0.047		1 ' 1		PQ4R10XJ151	150	1
C25	ECEA1HKS010	1		1 1	R6 R7	PQ4R10XJ273	27K	1 1
C26	ECEA1HKS4R7	4.7	s		R8	PQ4R10XJ330 PQ4R10XJ221	33 220	1 1
C27	PQCUV1C683MD	0.068	3		R9	PQ4R10XJ102	1K	1 1
C28	PQCUV1H153KB	0.015		1	R10	PQ4R10XJ274	270K	1
C29	ECEA0JU102	1000			R11	PQ4R10XJ332	3.3K	1 1
C30	ECEA1CK101	100	s		R12	PQ4R10XJ121	120	1 1
C31	ECEA1CKS470	47	S		R13	PQ4R10XJ473	47K	1 1
C32	PQCUV1H333JC	0.033	Ŭ		R14	PQ4R10XJ222	2.2K	1
C33	ECEA1CKS470	47	s	lil	R15	Not Used	2.21	1 '
C34	PQCUV1C683MD	0.068	·	1 1	R16	Not Used	1	1
C35	ECEA1HKS4R7	4.7	s		R17	Not Used	1	
C36	ECEAOJKS220	22	Ü		R18	Not Used		
C37	PQCUV1H103KB	0.01			R19	Not Used		
C39	PQCUV1E104MD	0.1			R20	PQ4R10XJ225	2.2M	1
C40	PQCUV1E473MD	0.047			R21	PQ4R10XJ303	30K	1 1
C41	ECUV1H104MD	0.1	s		R22	PQ4R10XJ683	68K	1
C42	ECEA1HKSR47	0.47	-		R23	PQ4R10XJ562	5.6K	1 1
C43	ECEA1HKS010	1		1 1	R24	PQ4R10XJ275	2.7M	1 1
	•.•	1		'	R25	PQ4R10XJ472	4.7K	1 1
C60	ECEA1CKS470	47	s	1 1	R26	PQ4R18XJ104	100K	1
C61	PQCUV1H223KB	0.022	-		R27	PQ4R18XJ393	39K	1
C62	PQCUV1E104MD	0.1			R28	PQ4R10XJ152	1.5K	1 1
C63	PQCUV1E104MD	0.1			R29	PQ4R10XJ154	150K	1
C64	PQCUV1E104MD	0.1			R30	PQ4R10XJ222	2.2K	l i
C65	ECEA0JU331	330		1 1	R31	PQ4R10XJ472	4.7K	li
C66	PQCUV1H153KB	0.015		i	R32	ERDS2TJ183	18K	1 1
	Not Used				R33	PQ4R10XJ103	10K	1
	ECEA1HKS100	10		1 1	R34	Not Used	1	1
	PQCUV1E104MD	0.1		1 1	R35	PQ4R18XJ3R3	3.3	1
	PQCUV1H103KB	0.01		1 1	R36	PQ4R10XJ682	6.8K	1 1
	PQCUV1E104MD	0.1		i			====	'
	PQCUV1E104MD	0.1		1	R60	PQ4R10XJ682	6.8K	1
1	PQCUV1E104MD	0.1		1	R61	PQ4R10XJ392	3.9K	1 1
l					R62	PQ4R10XJ274	270K	1 1
C90	PQCUV1E104MD	0.1		1	R63	PQ4R10XJ101	100	1
	PQCUV1H152KB	0.0015		i	R64	PQ4R10XJ471	470	1
	PQCUV1E473MD	0.047		1	R65	PQ4R10XJ222	2.2K	1 1
C92							-	

Fig. Pocks	Ref. No.	Part No.	Part Name & Description (Value)	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
BIGS PO-RESTANCE 1	R67	PQ4R10XJ471		1	R151	PQ4R10XJ103	10K	1
POS-RETOX_272	R68	PQ4R10XJ682	6.8K	1	R152			3
DOCARDOLIZADE 1		· ·		: I			3.9K	1
POARTICALIDID 100						1		
POSHTONIZES 220K								
Fig. Post			l .		1			
Fig.						•		
POSHTOLARY 1					1	1		
PORTHOLIAND 47					1	3	4.7K	1
POSHTOLICIDS ATK 1			1	1	1			1
Book	R78	PQ4R10XJ154	150K	1	R162	PQ4R10XJ103	10K	1
POSHTOCKS72	R79	PQ4R10XJ473	47K	1	R163	PQ4R10XJ103	10K	1
PodR100XL023								
POSHTOLICUS DOK 1	R81	PQ4R10XJ472	4.7K	1		1	•	1
POSHTOLOGUEZE 2.2K		50.5.5.4.4.55			1	1		1
POSHTOLOGISH POSH					1		4./K	1 '
R82 PORTROXITIOS 10K	1		1					
PASH POARHOX/HOS 10K	1 1		390K	'	1			
PASH POARHOX,1004 100K	1		10K	1	1		22k	1
POSHTOKURSE 5.6K	1				1	1		1
RSE						1		1
POST					1	ı	1	1
Post		PQ4R10XJ103			1	PQ4R10XJ223		1
POSTION_TIEST								
R179	1 1			1 1	1			
R103	1		1.8K	1	1			
R104				i i				
R105 Not Used No								1
R105	1			l				1
R106					1		22K	1
PIOTE POCHTIOX.1222 2.2K						I .	221	1
Pi109 PORFIREX/IDC TK			2.2K	1 1		1		İ
FILTO	1		I		1	1		1
PATE			1K	1 1	i			1
B113	R110	PQ4R10XJ564	560K	1 1	R188	PQ4R10XJ104	100K	1
R114	R111	PQ4R18XJ102	1K	1 1	R189			
R114	1	1		1 1	•	3	1	1 .
R116 ERDSZT.I102 1K		I .		1		1	8.2K	1
R116	1	1				1	1.0	1 .
R117 ERDSZTJ102	1	1	t control of the cont					1
R119					H194	POARTOWTOA	100K	1 '
R119		1	I'N	1 ' 1	B220	PO4B10X.1221	220	1 1
R120		li .			1,220	1 441110/0221		1
R121	1			1 1	B230	PQ4R10XJ332	3.3K	1
R123	1	1			1			1
R124	R122	ERDS2TJ102	1K	1 1				
R125	R123	PQ4R10XJ102	1K	1 1				1
R126				1 1	1		, ·	
R127	1	i e	1	1 1		PQJJ1TB2T	JACK, HANDSET S	1
R128			•	1 1				
R129				1 1		PCW11B26Z	JACK, EMSS	1
R130	1	ŀ		1	JACK			1
R131		l .		l . I			(OTHERS)	
R132	1	ž.		1 : 1	l _{F1}	R.IM1427		1
R133	1			1 1				1
R134					1			
R135		1		1 1			1	
R136						OPE	RATION BOARD PARTS	T
R137								
R139		Not Used	1	1	PCB2	PQWP2T7020X	OPERATION BOARD ASS'Y (NLA)	1
R140		1			1			
R141 Not Used R142 PQ4R10XJ223 22K 1 D622 LN1361C LED 1 LED 1 LED 1 LED 1 LED 1 LED 1 LED LED 1 LED		1			1		(5)5555	1
R142		1	1		D047.00	LAHOMEO	1.	_
R143		1	logy	,		1		•
R144		I	1					1
R145	1	1	1'0	'		1	1	
R146			1		10000	1112010		1 '
R147 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used Not Used Not Used R149 Not Used R149 R	1				1			
R148 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 R149 Not Used CN1-4 PQJS8B30Z CONNECTOR, 8P 4 PQJS8B30Z 1	•	1				(CONNECTOR)		
R149 Not Used		1	1		CN1-4	PQJS8B30Z		4
		1			1	1		
	R150	PQ4R10XJ472	4.7K	1 1		<u> </u>		